

ASSIGNMENT OF PATENT APPLICATION

014643-009030US

WHEREAS, Nils Lonberg, a United States citizen residing at 930 Edgecliff Way, Redwood City, California 94061, and Robert M. Kay, a citizen of the United Kingdom residing at 2127 Broadway #5, San Francisco, California 94115; hereinafter referred to as "Assignors", are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: TRANSGENIC NON-HUMAN ANIMALS FOR PRODUCING
HETEROLOGOUS ANTIBODIES

Filing date: December 2, 1996 Serial No.: 08/758,417; and

WHEREAS, GENPHARM INTERNATIONAL with place of business at 855 California Avenue, Suite C, Palo Alto, California 94303 hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of an division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.


Nils Lonberg3/18/97
DateSIGNATURE WITNESSED BY:

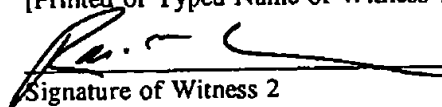
(1) Date: 3-18-97


Signature of Witness 1

William M. Smith

[Printed or Typed Name of Witness 1]

(2) Date: 3-18-97


Signature of Witness 2

Randolph T. Apple

[Printed or Typed Name of Witness 2]

Robert M. Kay

Date

SIGNATURE WITNESSED BY:

(1) Date: _____

Signature of Witness 1

[Printed or Typed Name of Witness 1]

(2) Date: _____

Signature of Witness 2

[Printed or Typed Name of Witness 2]

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Nils Lonberg

Date

SIGNATURE WITNESSED BY:

(1) Date: _____

Signature of Witness 1

[Printed or Typed Name of Witness 1]

(2) Date: _____

Signature of Witness 2

[Printed or Typed Name of Witness 2]

Robert M. Kay
Robert M. Kay

3/17/97
Date

SIGNATURE WITNESSED BY:

(1) Date: 3/17/97

P. Elzabet Scott-Kay
Signature of Witness 1

Pamela Elzabet Scott-Kay
[Printed or Typed Name of Witness 1]

(2) Date: _____

Signature of Witness 2

[Printed or Typed Name of Witness 2]

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